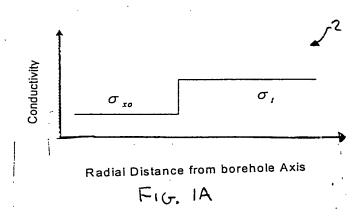
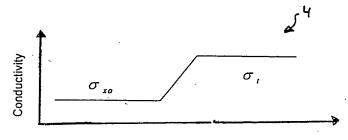
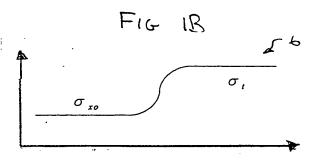
Atty Docket 2003-IP-010948 (1391-44300) METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED

PATTERN SPACE
Inventors: Jiaqi Xiao et al

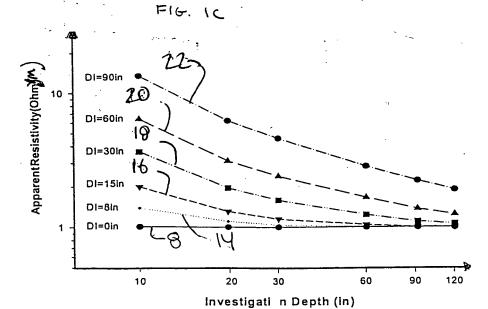




Radial Distance from borehole Axis



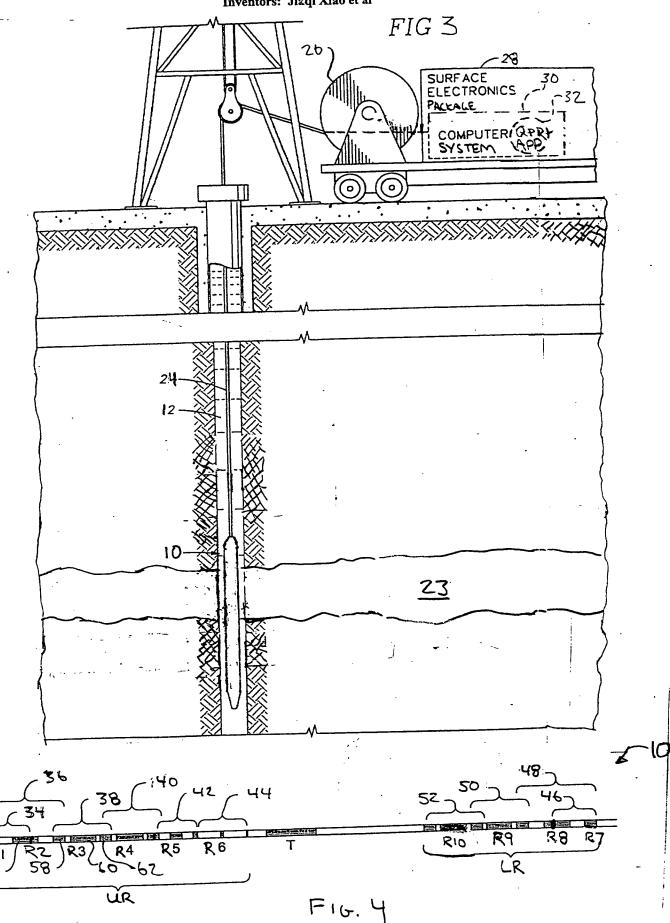
Radial Distance from borehole Axis



F16- 2 ---

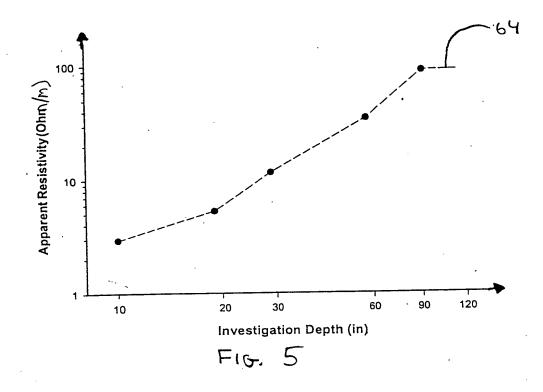
Atty Docket 2003-IP-010948 (1391-44300) METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED PATTERN SPACE

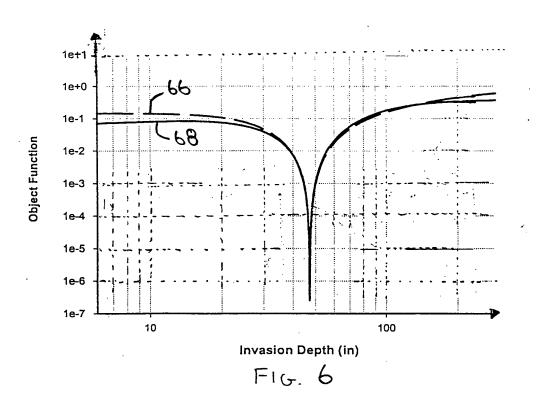
Inventors: Jiaqi Xiao et al



Atty Docket 2003-IP-010948 (1391-44300)
METHOD AND APPARATUS FOR INVERSION
PROCESSING OF WELL LOGGING DATA IN A SELECTED
PATTERN SPACE

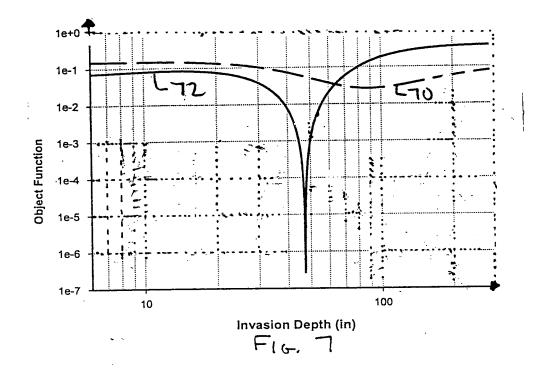
PATTERN SPACE
Inventors: Jiaqi Xiao et al

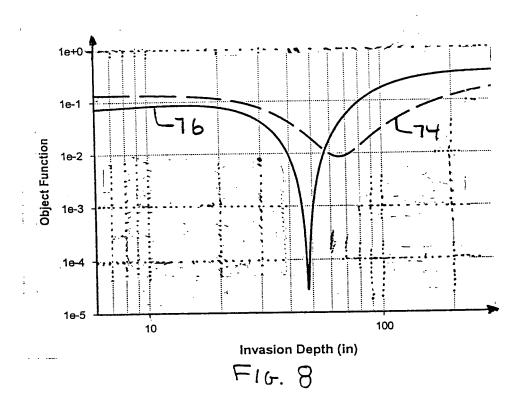




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METHOD AND APPARATUS FOR INVERSION
PROCESSING OF WELL LOGGING DATA IN A SELECTED

PATTERN SPACE Inventors: Jiaqi Xiao et al



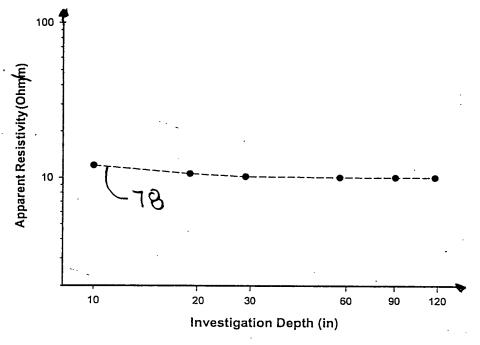


Atty Docket 2003-IP-010948 (1391-44300) METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED

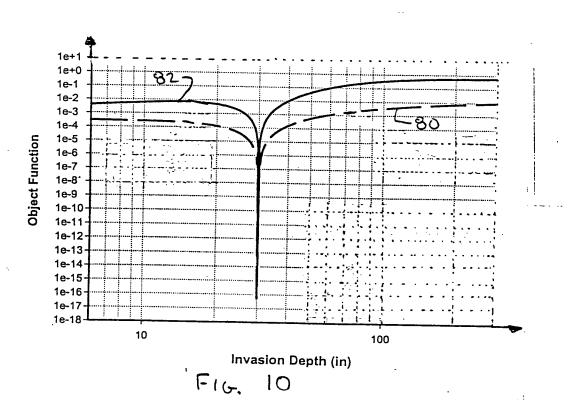
PATTERN SPACE

Inventors: Jiaqi Xiao et al





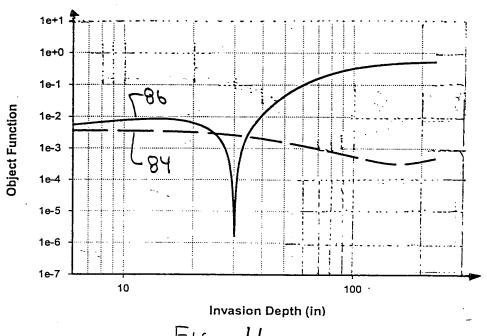
F16. 9



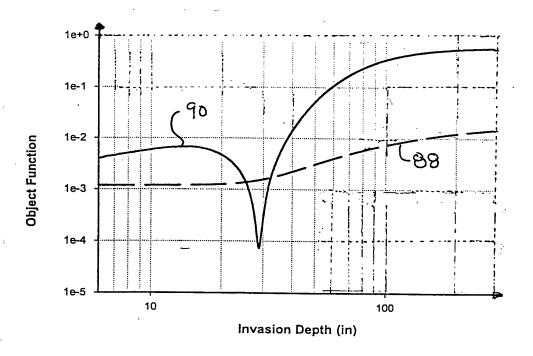
Atty Docket 2003-IP-010948 (1391-44300) METHOD AND APPARATUS FOR INVERSION

PROCESSING OF WELL LOGGING DATA IN A SELECTED

PATTERN SPACE
Inventors: Jiaqi Xiao et al



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METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED PATTERN SPACE

Inventors: Jiaqi Xiao et al

START COLLECT FIELD MEASUREMENTS 96 ESTIMATE DIRECT PARAMETERS FROM THE COLLECTED FIELD MEASUREMENTS 98 TRANSFORM THE COLLECTED FIELD MEASUREMENTS INTO THE SELECTED PATTERN SPACE -100 INVERT FUR THE INDIRECT PARAMETERS IN THE PATTERN SPACE -102 CONSTRUCT MODEL FIROM DIRECT AND INDIRECT PARAMETERS -104 END

F16. 13

METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED PATTERN SPACE Inventors: Jiaqi Xiao et al -100 START 801-COLLECT FIELD MEASUREMENTS -110 ESTIMATE DIRECT PARAMETERS FROM THE COLLECTED FIELD MEASUREMENTS 112 TRANSFORM THE COLLECTED FIELD MEASUREMENTS 3) AGE URSTTAG OTHI -114 INVERT FOR THE INDIRECT PARAMETERS IN THE PATTERN SPACE -116 INVERT FUR THE DIRECT PARAMETERS IN THE MENSUREMENT SPACE -118 DETERMINE MIJELL -120 POINT OF MUFT NO INDINGT. λEζ (ONSTRUCT MODEL FROM DIRECT AND INDIRECT PARAMETERS 124 END

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METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED PATTERN SPACE Inventors: Jiaqi Xiao et al-START -158 COLLECT INDUCTION FIELD MEASUREMENTS USING ARRAY INDUCTION TOOL 10 130 P - PROCESS RAW INDUCTION FIELD MEASUREMENTS MINU SOFTWARE FOCHSSING TO CORRECT FUIZ SKIN, BOREHOLE AND OTHER UNDANTED EFFECTS ESTIMATE THE TRUE FORMATION CONDUCTIVITY OF AND THE THOUCTION FIELD PROCESSED THE MEASUREMENTS 134 TRANSFORM THE PROCESSED INDUCTION FIELD MEASUREMENTS INTO THE PATTERN SPACE . 136 PATTERN SPACE INVERT FUR INVASION DEPTH IN 138 INVERT FOR TRUE FURNATION CONDUCTIVITY OF MI OXD VIVITINGHO) 3405 HOIZAVAI BUT OMA THE MEASUREMENT SPACE - 140 DETERMINE MISFIT -142 LOWEST 20 POINT OF MILE HUIZAVAI YES -144 CONSTRUCT MODEL OF SUBJURFACE FURMATION FROM INVASION ? DEPTH DI, TRUE CONDUCTIVITY OF AND INVASION ZONE CONDUCTIVITY - 146 に

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Atty Docket 2003-IP-010948 (1391-44300)

Atty Docket 2003-IP-010948 (1391-44300) METHOD AND APPARATUS FOR INVERSION PROCESSING OF WELL LOGGING DATA IN A SELECTED PATTERN SPACE Inventors: Jiaqi Xiao et al START T150 COLLECT INDUCTION FIELD MEASUREMENTS USIAL ARRAY INDUCTION TOIL 10 152 PROCESS RAW INDUCTION FIELD MEASUREMENTS USING SUFTWARE FOCUSING TO CORRECT FUR JKIN BONEHULE AND OTHER UNWANTED EFFECTS -154 THE TRUE FURNATION CONDUCTIONTY ET, ESTIMATE TOURDARIES A FROM THE PROCESSED INDUCTION FIED WEDSHKELKINGS TRANSFORM THE PROCESSED INDUCTION FIELD MEASUREMENTS INTO THE PATTERN SPACE 158 (INVASION DEPTH AND INVERT FUR GEOMETRIES BOUNDARY POSITIONS) IN PATTERN SPACE -160 INVEST FOR TRUE FORMATION CONDUCTIVITY T AND INVASION ZONE CONDUCTIVITY TXO IN THE MEASUREMENT SPACE -165 DETERMINE MUSFIT 164 No BUINT UF MIJELT 169 SEI CONSTRUCT MODEL OF SYBNIKFACE GEORHYDIAL FORMATION 23 FROM CEOMETRIES (MINNASIONS DEPTH DI AND BOLOAKISS AND CONDUCTIVITES CTRUE FORMATION CONDUCTIVELY OF AND INVASION ZUNE CONDUCTIVIS TO

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